

Entry Field 1: Input Record Type E 1	Entry Field 2: Process Code	Entry Field 3: Engine Family/Test Group Name	Entry Field 4: Engine System Number	Entry Field 5: Special Compliance Indicator Code
Entry Field 6: Alternate Displacement 1	Entry Field 7: Alternate Displacement 2	Entry Field 8: Alternative Displacement 3	Entry Field 9: Combustion Cycle	Entry Field 10: Ignition Type
Entry Field 11: Basic Fuel Metering System	Entry Field 12: Valves per Cylinder	Entry Field 13: Turbocharger Supercharger	Entry Field 14: Catalyst Construction	
Entry Field 15: Trap	Entry Field 16: California OBD	Entry Field 17: Entry Field 18: Projected Job 1 Date	Entry Field 19: Trip Point	Entry Field 20: Production Model Year Code
Entry Field 21: Preconversion Model Year Code		Entry Field 23: Entry Field 24: SFTP Compliance SFTP Composite CO option or TLEV or other applicab		



E1 - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	E1	
Entry Field 2	Process Code	See CMUG - Appendix D	
Entry Field 3	Engine Family/ Test Group Name	Valid ENGINE FAMILY/TEST GROUP NAME	
Entry Field 4	Engine System Number	01-99	
Entry Field 5	Special Compliance Indicator Code	Y - Yes N - No	
Entry Field 6	Alternate Displacement 1	0000.000-8193.500 or <i>blank</i>	
Entry Field 7	Alternate Displacement 2	0000.000-8193.500 or <i>blank</i>	
Entry Field 8	Alternate Displacement 3	0000.000-8193.500 or <i>blank</i>	
Entry Field 9	Combustion Cycle	G - Otto Cycle Piston D - Diesel Cycle R - Otto Cycle Rotary See CMUG - Appendix D for more codes	
Entry Field 10	Ignition Type	S - Spark C - Compression N - Not Applicable See Note in CMUG - Appendix D	
Entry Field 11	Basic Fuel Metering System	See CMUG -Appendix D	
Entry Field 12	Valves per Cylinder	See CMUG - Appendix D	
Entry Field 13	Turbocharger Supercharger	See CMUG - Appendix D	
Entry Field 14	Catalyst Construction	See CMUG - Appendix D	

Entry Field 15	Тгар	1 - Trap - Active Regeneration 2 - Trap - Continuous Regeneration 3 - Trap - Continuous Regen + Fuel Additive 99 - Other (Contact EPA prior to use) See Note in CMUG - Appendix D	
Entry Field 16	California OBD	N - No OBD 1 - CARB OBD I 2 - CARD OBD II D - OBD with Deficiencies See Note in CMUG - Appendix D	
Entry Field 17	Federal OBD	Y - OBD N - No OBD D - Yes with Deficiencies See Note in CMUG - Appendix D	
Entry Field 18	Projected Job 1 Date	Valid calendar date. Note: Business rule error if the value after update is blank or null. (mmddyyyy)	
Entry Field 19	Trip Point	000000-999999 or <i>blank</i>	
Entry Field 20	Production Code	0 - 5 Note: Indicates the number of years earlier than the certification model year.	
Entry Field 21	Preconversion Code	0 - 5 Note: Indicates the number of years earlier than the certification model year.	
Entry Field 22	CAP2000	0 - Prior to CAP2000 1 - CAP2000 (Early opt-in) 2 - Full CAP2000 (with Durability Group data)	
Entry Field 23	SFTP Compliance	Y or N (default)	
Entry Field 24	SFTP Composite CO option for Tier 1 or TLEV or other applicable tier levels	Y or N (default)	



	Entry Field 1: Input Record Type	Entry Field 2: Durability Group Name	Entry Field 3: Catalyst Precious Metal Combination	Entry Field 4: Fuel Combination
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ER - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	ER
Entry Field 2	Durability Group Name	ER record is required if CAP2000 field (col 91 on E1) is 2 and is to be placed between E1 and ZZ records.
Entry Field 3	Catalyst Precious Metal Combination	Required if the DG (Durability Group) Name is not in the data base. 1 - Platinum based oxidation catalyst 2 - Palladium based oxidation catalyst 3 - Platinum and palladium oxidation catalyst 4 - Platinum and rhodium three- way catalyst 5 - Palladium and rhodium three- way catalyst 6 - Platinum and palladium and rhodium three-way catalyst
Entry Field 4	Fuel Combination	Required if the DG (Durability Group) Name is not in the data base. S - Single fuel D - Dual fuel F - Flexible fuel



Entry Field 1: Input Record Type	Note: The ED Record has been removed. This Record is no longer required and should not be submitted.	Entry Field 1: Input Record Type	Entry Field 2: EERC/EVERC Process Code	Entry Field 3: EERC/EVERC Code	Note: The EE Record does not apply to 2001 or later CAP2000 data and should not be entered.
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ED and EE - Engine Systems Information Entry Field Descriptions

	Entry Field 1	Input Record Type	ED The ED Record has been removed. This Record is no longer required and should not be submitted.
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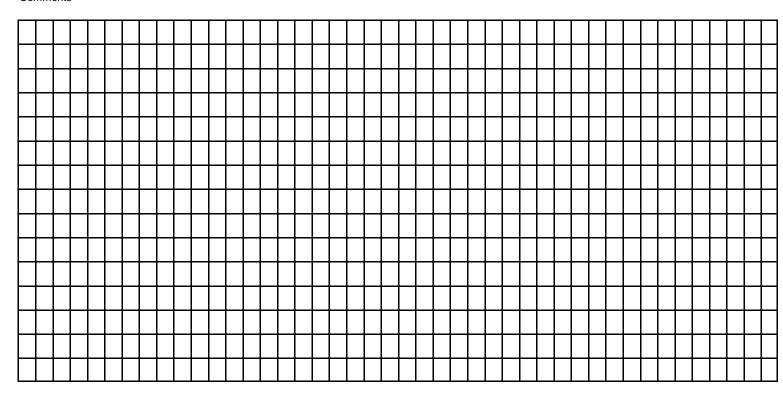
Entry Field 1	Input Record Type	EE The EE Record does not apply to 2001 or later CAO2000 data and should not be entered.
Entry Field 2	EERC/EVERC Process Code	For Add: 'A' or blank - '' For Replace: 'R' For Delete: 'D'
Entry Field 3	EERC/EVERC Code	See CMUG - Appendix D



Entry Field 1: Input Record
Type

Entry Field 2: Comments

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EC - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	FC
Entry Field 2	Comments	Text Note: Comment text is appended to the end of any existing comment text for Engine Family System.



Entry Field 1: Input Record Type E 2		Entry Field 3: Engine Family/Test 0	Group Name]	Entry Field 4: Engine System Number	Entry Field 5: Engine Family Subsystem Number	Entry Field 6: Model Year
Entry Field 7: Sales Area Code	Entry Field 8: Projected Sales (OBSOLETE)	Actual	Field 9: Production DLETE)		Entry Field 10: DF Type	Entry Field 11: GVW Category	Entry Field 12: Vehicle Class
Entry Field 1: Input Record Type	Entry Field 2: Process Code	Emiss	Field 3: ion Standards ype Code		Entry Field 4: Exhaust Emission Standard Code		



E2 and ES Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	E2
Entry Field 2	Process Code	For Add: 'A' or blank - ' ' For Modify: 'M' For Replace: 'R' For Delete: 'D' For Report: 'P' For Cancel: 'F' For Reactivate: 'G'
Entry Field 3	Engine Family/ Test Group Name	Valid ENGINE FAMILY/ TEST GROUP NAME
Entry Field 4	Engine System Number	01-99
Entry Field 5	Engine Family Subsystem Number	1-9
Entry Field 6	Model Year	1970-2100 Note: Defaults to derived Engine Family Model Year
Entry Field 7	Sales Area Code	See CMUG - Appendix D
Entry Field 8	Projected Sales	(Obsolete)
Entry Field 9	Actual Production	(Obsolete)
Entry Field 10	DF Type	See CMUG - Appendix D
Entry Field 11	GVW Category	See CMUG - Appendix D
Entry Field 12	Vehicle Class	Standard Engine Family Vehicle Class

Entry Field 1	Input Record Type	ES
Entry Field 2	Process Code	For Add: 'A' or blank - '' For Modify: 'M' For Replace: 'R' For Delete: 'D'
Entry Field 3	Emission Standards Fuel Type Code	G - Gasoline D - Diesel M - Methanol E - Ethanol C - Compressed Natural Gas (1994-1997) L - Liquid Petroleum Gas (1994- 1997) CNG - Compressed Natural Gas (1998 & later) LNG - Liquefied Natural Gas LPG - Liquid Petroleum Gas (1998 & later) N - Not Applicable
Entry Field 4	Exhaust Emission Standard Code	Text (01-32 and AA through ZZ) Standard Engine Family Standard



Entry Field 1: Input Record Type	Entry Field 2: Process Code	Entry Field 3: Useful Life	Entry Field 4: Cert / In Use Code	Entry Field 5: Tier	Entry Field 6: Emission Name
Entry Field 7: Emission Standard	Entry Field Phase In Percentage	8:	Entry Field 9: Multiplicative DF	Entry Field 10: Additive DF	
Entry Field 11: Averaging Flag	Entry Field Banking and Trading India	1	Entry Field 13: Non-Compliance Penalty Flag	Entry Field 14: Waiver Flag	



EG - Engine Systems Information Entry Field Descriptions

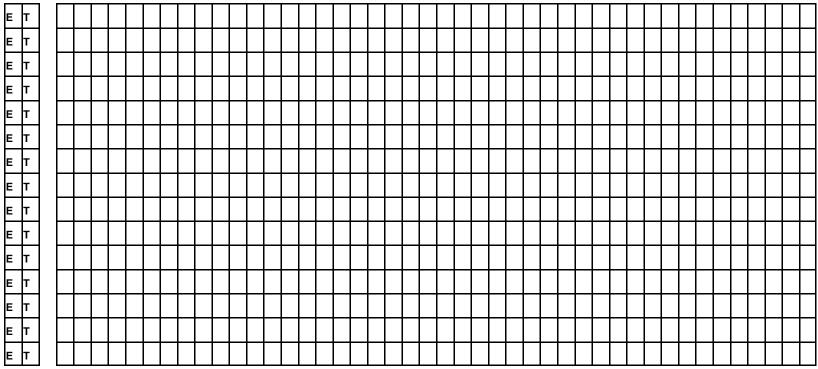
Entry Field 1	Input Record Type	EG
Entry Field 2	Process Code	For Add: 'A' or blank - ' ' For Modify: 'M' For Replace: 'R' For Delete: 'D'
Entry Field 3	Useful Life	000-999, N/A
Entry Field 4	Cert / In Use Code	C - Certification I - In Use Note: Value C is assigned as a default if input is blank.
Entry Field 5	Tier	T0 - Tier 0 T1 - Tier 1 T2 - Tier 2 ILEV - Inherently Low Emission Vehicle TLEV - California only - Transitional Low Emission Vehicle LEV - Low Emission Vehicle ULEV - Ultra Low Emission Vehicle SLEV - Super Ultra Low Emission Vehicle ZEV - Zero Emission Vehicle N/A - Not Applicable T11 - Tier 1 Intermediate
Entry Field 6	Emission Name	See CMUG - Appendix D
Entry Field 7	Emission Standard	000.0000 - 999.9999 See CMUG - Appendix D
		Business rule error if the value after update is blank or null.
Entry Field 8	Phase In Percentage	000-100, <i>blank</i> Assign value 0 as a default if the value after update is blank or null.

Entry Field 9	Multiplicative DF	0.000 - 9.999 Note: This field shall be stored in the database as entered by the user, however IOV CFEIS processes that use this field shall use the value 1 when the value entered is less than 1.
Entry Field 10	Additive DF	-9.999999 - 9.999999 Note: This field shall be stored in the database as entered by the user, however IOV CFEIS processes that use this field shall use the value 0 when the value entered is less than 0.
Entry Field 11	Averaging Flag	Y, N, <i>blank</i> Note: Assign value N as a default if the value after update is blank or null.
Entry Field 12	Banking and Trading Indicator	B, T, N, <i>blank Note:</i> Assign value N as a default if the value after update is blank or null.
Entry Field 13	Non- Compliance Penalty Flag	Y, N, <i>blank</i> Note: Assign value N as a default if the value after update is blank or null.
Entry Field 14	Waiver Flag	Y, N, <i>blank</i> Note: Assign value N as a default if the value after update is blank or null.



Entry Entry Field 2: Field 1: Comments

Input Record Type





ET - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	ET
Entry Field 2	Comments	Text Note: Comment text is appended to the end of any existing comment text for Engine Family Subsystem.